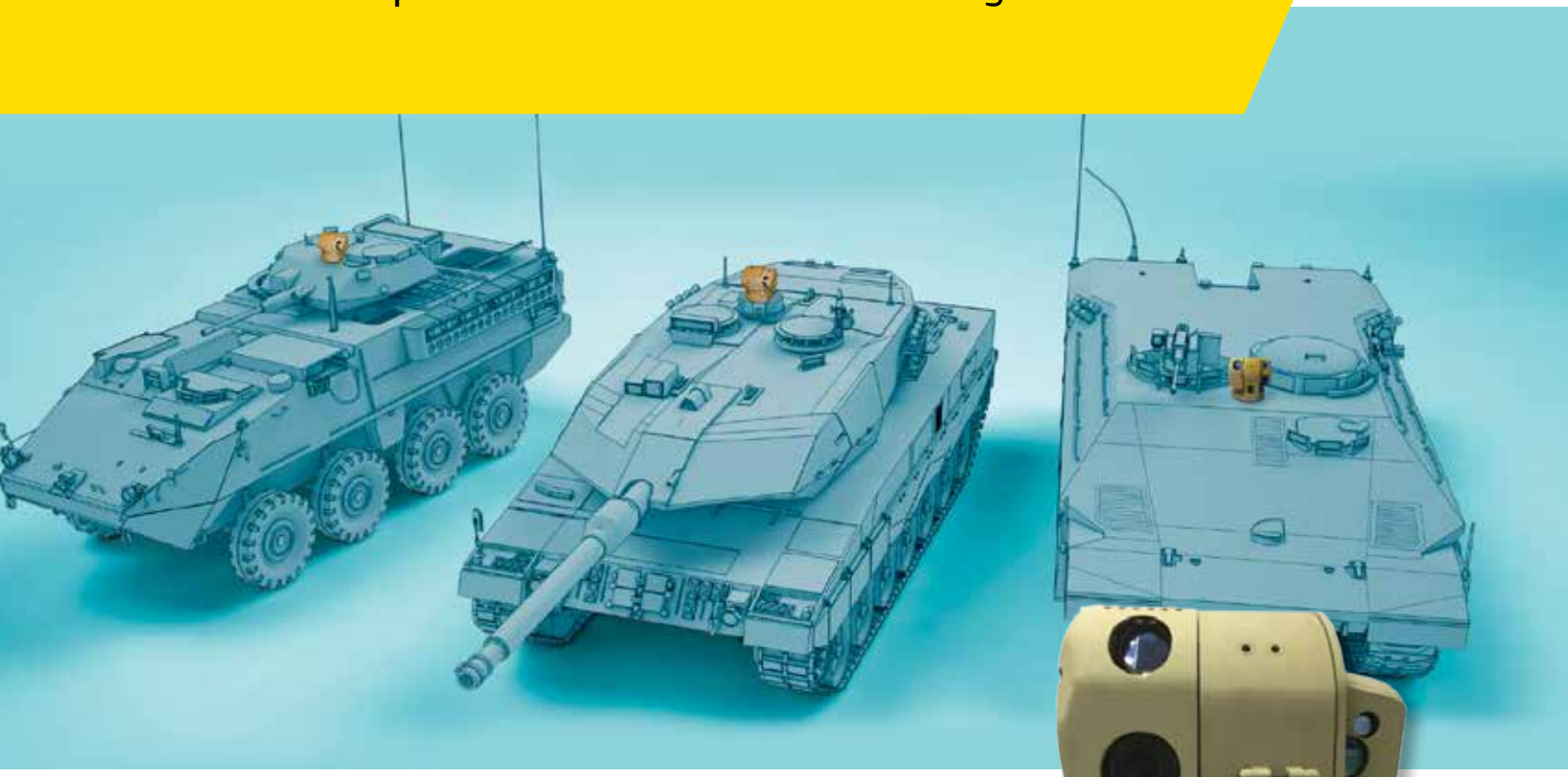
ELOP COAPS

Commander Open Architecture Panoramic Sight



COAPS is an advanced, modular dual-axis stabilized sight for MBTs and AFVs. Based on open architecture, it is easily adaptable to sensor additions/changes.

Main Advantages & Features

- Facilitates long-range target acquisition day and night, in both stationary and mobile situations
- Wide range of advanced sensors, including 3-5µm or 8-12µm thermal imagers, color zoom camera and eyesafe laser range finder (ELRF), as well as:
  - Built-in electronic unit
  - Independently stabilized dual-axis
  - Dedicated ballistic protection
- Independent 360º panoramic view
- Provides hunter-killer capabilities with the turret system through the existing GMS

Applications

- Fire control computation
- Long-range target acquisition
- Independent surveillance

Elbit Systems™ ISTAR

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Technical Data

Sight

• Line of sight freedom	El: -20º to +60º Az: n x 360º
• Stabilization accuracy	Better than 100 µrad (1∂)
• Positioning/slaving accuracy	Better than 150 µrad (1∂)
• Tracking speed	
• -E- l, Az	0,2 mil/s to 800 mil/s
• -E- l acceleration	3 Rad/s2
• -A- z acceleration	1 Rad/s2

Sensors

FLIR

	Option 1	Option 2
• Spectral waveband	3-5 µm	8-12µm
• Detector	640 x 512 / 1024 x 768	640 x 512 / 1280 x 1024
• Video output	CCIR-B or digital 10 bit format	CCIR-B or digital 10 bit format
• FOVs	Continuous optical zoom 1.7º-25º	NFOV: 3.2º(H) x 2.4º(V) WFOV: 9.6º(H) x 7.2º(V)
• Range performance (km) NFOV NATO target	10.5/4.5/2.2 (DRI)	10.5/4.5/2.2 (DRI)

Day Channel Camera	
• Wavelength	Visible range
• Technology	CCD / CMOS HDTV
• Sensitivity	Color mode: 12 Lux Black & white mode: 2 Lux
• Video output	CCIR-B/PAL
• FOV	Continuous optical zoom x21 NFOV: 1.7º x 1.3º
• Range performance (km) NFOV NATO target	11.5 /5.1/2.3 (DRI)

ELRF	
• Wavelength	1.54µm (eyesafe)
• Range	200 to 7000 ± 5 m for NATO size target 2.3 x 2.3
• Discrimination between targets	5 mrad, 30 m
• Pulse repetetion rate	10 ppm

Environmental conditions

• Operating temperature	-20ºC to +55ºC
• Storage temperature	-30ºC to +70ºC
• Vibration	MIL-STD-810E, Method 514.4
• Shock	75g, 5msec

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